

ABSTRACT OF THE DISCLOSURE

The present invention relates to a vaccine enhancing the protective immunity to Hepatitis C virus using plasmid DNA and recombinant adenovirus, more particularly to a vaccine consisting of  $\Delta$  core-E1-E2 expressing DNA vaccine, nonstructural protein NS3 and NS4 expressing DNA vaccine, nonstructural protein NS5 expressing DNA vaccine and recombinant adenovirus vaccine, and method for administration of the vaccine by priming with the DNA vaccines described above and boosting with the recombinant adenovirus vaccine thereby enhancing the protective immunity to Hepatitis C virus.